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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/718,225	11/21/2000	Dennis Lee Matthies	SAR 13632	3163
26581 7	7590 05/08/2002			
RATNER & PRESTIA SUITE 301, ONE WESTLAKES, BERWYN P.O. BOX 980			EXAMINER	
			NGUYEN, DUNG T	
VALLEY FORGE, PA 19482-0980			ART UNIT	PAPER NUMBER
			2871	
			DATE MAILED: 05/08/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

09/718,225

Application No.

Applicant(s)

Examiner

Art Unit

Matthies



Office Action Summary

Dung Nguyen -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 2b) This action is non-final. 2a) This action is FINAL. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11; 453 O.G. 213. Disposition of Claims is/are pending in the application. 4) X Claim(s) 1-30 4a) Of the above, claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) X Claim(s) 1-30 is/are rejected. 7) Claim(s) is/are objected to. are subject to restriction and/or election requirement. 8) L Claims **Application Papers** 9) The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on is/are a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) □ All b) □ Some* c) □ None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). *See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e). a) The translation of the foreign language provisional application has been received. 15) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) 1) X Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s). 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) Notice of Informal Patent Application (PTO-152) 3) X Information Disclosure Statement(s) (PTO-1449) Paper No(s). 6) Other:

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DETAILED ACTION

Specification

1. The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Leupp et al., US Patent No. 3,863,332.

Regarding claims 1-2, 5-6, 8-15, 17-19, 21-23 and 25-30, Leupp et al. disclose a liquid crystal display (LCD) device having a back panel and a method of fabricating thereof (figures 3, 10 and 13) comprising:

a first transparent electrode layer (19) formed on the surface of the substrate (13) as claimed;

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a second conductor layer (spacer 25/33) including a plurality of sub-layer in contact with the first transparent electrode layer and contains a liquid crystal layer in a precise pattern (figure 3) as claimed;

Although Leupp et al. do not explicitly disclose how the liquid crystal layer can be formed in the LCD device, one of ordinary skill in the art would have realized the desire to form a liquid crystal layer in an LCD device such as injecting, depositing, etc. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to form a liquid crystal layer in an LCD device by depositing the liquid crystal material in a precise pattern because it is a common practice in the art to finish an LCD fabricating.

Regarding claims 3, 4, 7, 20 and 24, Leupp et al. do not disclose the second layer having a low surface energy material (e.g., polyamide). It is notoriously well known in the art to use a polyamide based material for the spacer layer in an LCD device. It follows that the surface of the spacer layer would have a low surface energy as claimed. Therefore, it would have been obvious to one having ordinary skill in the art at the time of the invention was made to use a polyamide based material for the second layer, since it has been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use.

Regarding claims 16, Leupp et al. disclose the claimed invention as described above except for the liquid is a powder deposition material. It would have been obvious to one skilled in the art since the Examiner takes Official Notice of the equivalence of the liquid crystal material and the powder deposition material for their use in the display art and the selection of

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any of these known equivalents to display an image would be within the level of ordinary skill in

the art.

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to

applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Examiner Dung Nguyen whose telephone number is (703) 305-0423. The

fax phone number for this Group is (703) 746-7730.

Any information of a general nature or relating to the status of this application should be

directed to the group receptionist whose telephone number is (703) 308-0956.

DN

05/06/2002

William I Silves

Supervisory Patent Examiner

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